

# Visual Pulse Assignment Switching System

## TYPE PSS-21-3



**SIMPLE SOLID-STATE PULSE ASSIGNMENT SWITCHING SYSTEM PROVIDING FOR THE DISTRIBUTION OF UP TO 21 PULSE GROUPS INDIVIDUALLY SELECTABLE FROM UP TO 3 PULSE SOURCES.**

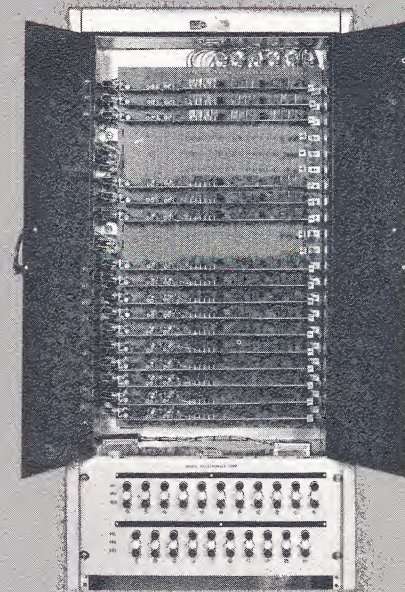
### FEATURES

- Separate isolated pulse feeds for up to 21 different locations
- Accommodates all 6 pulses (Hor. Dr., Ver. Dr., Bl., Sync, color burst flag, and color sub-carrier)
- Compact, entire system less control panel occupies only 31½-inches rack space
- Fully transistorized
- Modularized construction facilitates easy expansion. Only those modules currently required need initially be provided
- Provides undelayed pulses for color equipment and 1.2 microsecond delayed pulses to monochrome equipments to compensate for color encoder delays
- Simple DC control circuit provides for complete system remote control panel or individual pulse source selection at remote location

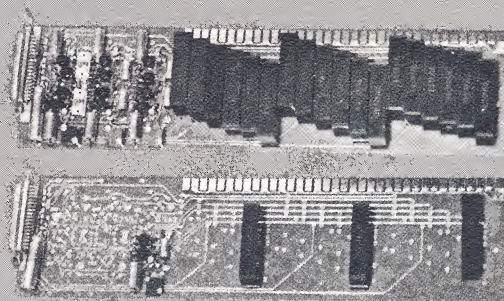
This Visual Pulse Assignment system, utilizing encapsulated transistorized fast-lap switching modules mounted on plug-in boards, provides for individually feeding sets of up to 6 pulses to up to 21 different locations. Each set or group of pulses can be switched as a group to any of 3 pulse sources.

Only those switching crosspoints actually required need be initially provided; for example, if only 2 pulse sources are available the switching crosspoint modules for the third pulse source need not be included. If, for example, only one pulse (such as sync to a VTR machine) is required for a given group only that one crosspoint module per pulse source for that given group is required. If later the system was to be expanded, either by the addition of module boards (to provide for feeding more locations), or by the addition of crosspoint modules on existing boards (to increase the pulses in a group or to permit the selection of a third pulse source), this could easily be accomplished.

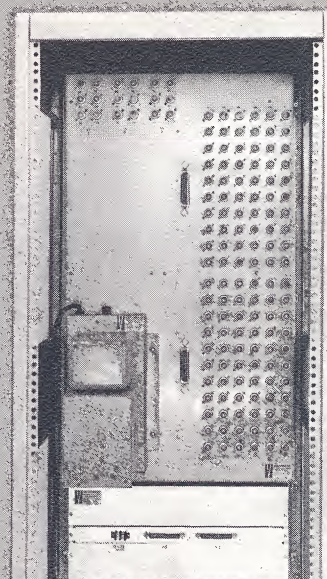
For color application, the system provides for the handling of the color burst flag and color sub-carrier along with the usual 4 pulses. The system provides undelayed pulses for color equipment and a 1.2 micro-second delay in appropriate pulses to monochrome equipments in order to compensate for color encoder delays.



*Visual Pulse Assignment Switcher Rack Mounted Equipment, including Control Panel. Front View with Doors Open.*



*Module Output Boards in Two Different Sub-Module Configurations.*



*Pulse Assignment Switcher. Rear View.*

**VISUAL ELECTRONICS CORPORATION**

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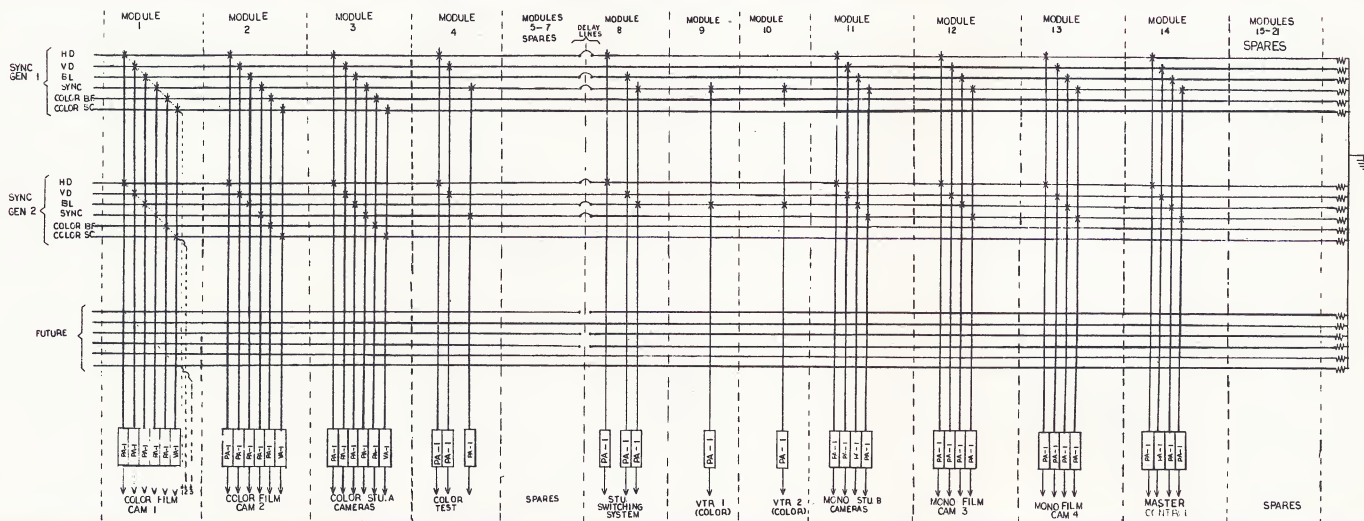
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Functional Diagram of Visual's Pulse Assignment Switcher.



## VISUAL PULSE ASSIGNMENT SWITCHING SYSTEM SPECIFICATIONS

### INPUTS:

Up to six signals (horizontal drive, vertical drive, blanking, sync, color burst flag and color sub-carrier) from up to three separate pulse sources or groups.

### INPUT LEVELS:

- (a) Pulses;  
nominal 4 volts 75 ohms internally terminated.
- (b) 3.58 mc. color sub-carrier;  
nominal 1 volt 75 ohms internally terminated.

### OUTPUT LEVELS:

- (a) Pulses;  
2.5-5.0 volts (adjustable) with 4 volts input.
- (b) 3.58 mc. color sub-carrier;  
0.5-1.5 volts (adjustable) with 1 volt input.

### CROSSTALK (Between separate generators or pulse source groups):

- (a) Pulses;  
better than 60 db.
- (b) 3.58 mc. color sub-carrier;  
better than 50 db.

### RISE TIME (With 1.2 usec. color compensating built-in delay):

.1 usec.

### TILT (Base line):

Less than 1%.

### POWER DRAIN (Average system):

2.2 amperes at 18 volts from included power supply.

### TEMPERATURE RANGE:

-20 C. to +65° C.

### MECHANICAL SIZE:

- (a) Switching chassis  
31½ inches standard, 19 inch mounting (required power supply may be mounted in rear of chassis).
- (b) Optional item (for added protection);  
14 inches standard, 19 inch rack mounting space required for dual power supply and automatic changeover configuration.

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